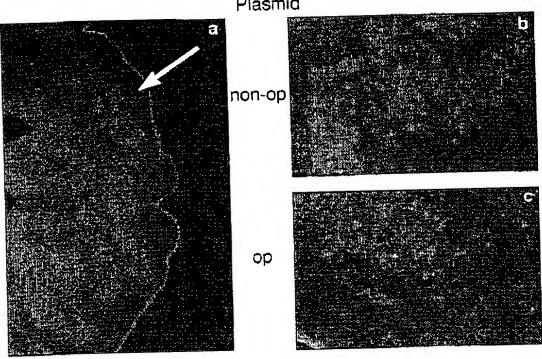
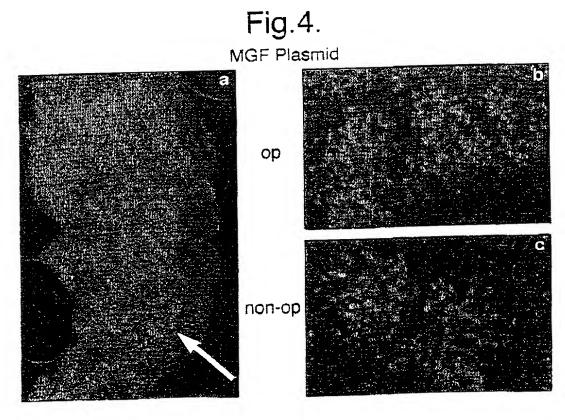


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Fig.3.





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Fig.5.

con sequence of Ruman MGF

GGACCGGAGACGCTCTGCGGGGCTGAGCTGGTGGATGCTCTTCGTGTYCTGGAGACAGGGGCCTTTTATTTCAACAGCCCACAGGGTATGGCTCCAGCAGTTCGG Exon 4 Exon]

AACACAAGTAGAGGGAGTGCAGGAAACAAGAACTACAGGATGTAGAAGACCCTTCTGAGGAGTGAAGAAGAAGACGGCCACCGCAGGACCCTTTGCTCTGCACAGTTA

CCTGTAAACATTGGAATACCGGCCAAAAATAAGTTTGATCACATTTCAAAGATGGCATTTCCCCCAATGAAATACACAAGTAAACAT

Protein sequence of Human MGF

GlyProGluThrLeuCysGlyAlaGluLeuValAspAlaLeuGlnPheValCysGlyAspArgGlyPheTyrPheAsnLysProThrGlyTyrGlySerSerSerAr

gArgAlaProGlnThrGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysAlaProLeuБysProAlaLysSerAlaArgS

erValArgAlaGlnArgHisThrAspMetProLysThrGlnLysTyrGlnProProSerThrAsnLysAsnThrLysSerGlnArgArgLysGlysGlySerThrPheGlu Exon 5

GluffisLys

the state of the s

con's sequence of Rat MGF

Fig.6.

GGACCAGAGACCCTTTGCGGGGCTGAGCTGGTGGTCGTCTTCGTGTGTGGACCAAGGGGCTTTTACTTCAACAAGCCCACAGTCTATGGCTCCAGCATTCG

GAGGGCACCACAGACGGGCATTGTGGATGAGTGTTGCTTCCGGAGCTGTATCTGAGGAGGCTGGAGGTGTACTGTGTCCGCTGCAAGCCTACAAAGTCAGCTCGTTT

GAAGAACACAAGTAGAGGAAGTGCAGGAAACAAGACCTACAGAATGTAGGAGGAGCCTCCCGAGGAACAGAAAATGCCACGTCACCGCAAGATCCTTTGCTGCTTGA

GCAACCTGCAAAACATCGGAACACCTGCCAAATATCAATAATGAGTTCAATATCATTTCAGAGATGGGCATTTCCCTCAATGAAATACACAAGTAAACATTCCCGGA

ATYIC

Protein sequence of Rat MGF

 ${\tt GlyProGluThrLeuCysGlyAlaGluLeuValAspAlaLeuGlnPheValCysGlyProArgGlyPheTyrPheAsnLysProThrValTyrGlySerSerIleAr}$ Exon 4

gArgAlaProGlnThrGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysValArgCysLysProThrLysSerAlaArgS

erIleArgAlaGlnArgHisThrAspMetProLysThrGlnLysSerGlnProLeuSerThrHisLysLysArgLysLeuGlnArgArgArgLysGlySerThrLeu Exon 5

GluGluHisLya

Fig.7.

conn sequence of Rabbit MGF

AAACAAGAACTACAGGATGTAGGAAGACCCTTCTGAGGAGTGAAGGACAGGCCACGCAGGACCCTTTGCTCTGCACGGTTACCTGTAAAATTAGGAATACCGGCCAAAAAT

AAGTTTGATCACATTTTCAAAGATGGCATTTCCCCCAATGAAATACACAGTAAACATTT

Protein sequence of Rabbit MGF

GlyProGluThrLeuCysGlyAlaGluLeuValAspAlaLeuGlnPheValCysGlyAspArgGlyPheTyrPheAsnLysProThrGlyTyrGlySerSerArgArgAlaPr

oGlnThrGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysAlaProLeuLysProAlaLysAlaAlaArgSerValArgAlaGlnArgH

isThrAspMetProLysThrGlnLysTyrGlnProProSerThrAsnLysLysMetLysSerGlnArgArgLysGlySerThrPheGluGluHisLys

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Fig.8.

CDNA sequence of Human L, IGF-1

GGACCGGAGACGCTCTGCGGGGCTGGTGGATGCTCTTCAGTTCGTGTGGAGACAGGGGGCTTTTTTCAACAAGCCCACAGGGTATGGCTCCAGCAGGAGGGCCCC Exon 4 Exon 3

ACACCGACATGCCCAAGACCCCAGAAGGAAGTACATTTGAAGAACGCAAGTAGAGGGAGTGCAGGAAACAAGAACTACAGGATGTAG Exon 6

Protein seguence of Human L.IGF-1

GlyProGluThrLeuCysGlyAlaGluLeuValAspAlaLeuGlnPheValCysGlyAspArgGlyPheTyrPheAsnLysProThrGlyTyrGlySerSerArgArgAlaPr Exon 4

oGlnTheGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysAlaProLeuLysProAlaLysSerAlaArgSerValArgAlaGlnArgH

isThrAspMetProLysThrGlnLysGluValHisLeuLysAsnAlaSerArgGlySerAlaGlyAsnLysAsnTyrArgMet Exon 6

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Fig.9,

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cDNA sequence of Rat L.IGF-1

GGACCAGAGACCCTTTGCGGGGCTGGTGGTGGTCTTCTTCGTGTTCGTGTGGACCAAGGGGCTTTTACTTCAACAAGCCCACAGTCTATGGCTCCAGGATTTCGGAGGGCACC Exon 4

ACAGACGGGCATIGIGGAIGATGCTICCITCCGGAGCTGIGAGGAGGCTGGAGRIGIACIGTGFCCGCTGCAAGCCTACAAAGICAAAGTCAGCICGTTCCAITCCGGGCCCAGCGCC

ACACTGACATGCCCAAGACTCCAGAAGGAAGTACACTTGAAGAACACAAGTAGAGGAAGTGCCAGGAAACAAGACCTACAGAATGTAGGAGGAGGAGCCTCCCGAGGAACAGAAAATGCCA Exon 6

CGTCACCGCAAGATCCTTTGCTGCTTTGAGCAACCTGCAAAAACACCTGCCAAATATCAATAATGAGTTCAATATCATTTCAGAGATGGGCATTTCCCTCAATGAATAC

ACAAGTAAACATTCCCGGAATTC

Rat L. IGF-1 Protein sequence of

GlyProGluThrLeuCysGlyAlaGluLeuValAspAlaLeuGlnPheValCysGlyProArgGLyPheTyrPheAsnLysProThrValTyrGlySerSerIleArgArgAlaPr Exon 4 Exon 3

oGlnThrGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysValArgCysLysProThrLysSerAlaArgSerIleArgAlaGlnArgH

isThrAspMetProLysThrGlnLysGluValHisLeuLysAsnThrSerArgGlySerAlaGlyAsnLysTyrArgMet

Fig. 10.

cDNA sequence of Rabbit L.IGF-1

Exon 3

Exon 6

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AACATTC

Protein sequence of Rabbit L.IGF-1

GlyProGlnThrLeuCysGlyAlaGlnLeuValAspAlaLeuGlnPheValCysGlyAspArgGlyPheTyrPheAsnLysProThrGlyTyrGlySerSerArgArgAlaPr Exon 4 Exon 3

pGlnThrGlyIleValAspGluCysCysPheArgSerCysAspLeuArgArgLeuGluMetTyrCysAlaProLeuLysProAlaLysAlaAlaArgSerValArgAlaGlnArgH

isThrAspMetProLysThrGlnLysGluValHisLevLysAsnThrSerArgGlySerAlaGlyAsnLysAsnTyrArgMet

Fig. 11

GP -	sn Lys Pro Thr Gly Tyr Gly Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu	Cys
GF ~	sn Lys Pro Thr Val Tyr Gly Ser Ser Ile Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu	Cys
MGF -	Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile	Cys Phe
. Z5	an Lys Pro Thr Gly Tyr Gly Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu	CYS
GF ~	sn Lys Pro Thr Val Tyr Gly Ser Ser Ile Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu	c_{YS}
G₽ ~	an Lys Pro Thr Gly Tyr Gly Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu	Cys
MGE -	Arg Ser Cys Asp Leu Arg Arg Jen Glu Met Tur Cys Ala Pro Leu Tws Pro Ala lws Ser Ala Arg Ser	r Val
200		

s Ser Ala Arg Ser Val s Ser Ala Arg Ser Ile s Ala Ala Arg Ser Val s Ser Ala Arg Ser Val s Ala Ala Arg Ser Ile	Ser Thr Asn Lys Asn Thr Lys Ser Thr His Lya Lys Arg Lys Ser Thr Asn Lys Lys Met Lys
Pro Leu Lys Pro Ala Lys Arg Cys Lys Pro Thr Lys Pro Leu Lys Pro Ala Lys Pro Leu Lys Pro Ala Lys Arg Cys Lys Pro Thr Lys Pro Leu Lys Pro Ala Lys Pro Leu Lys Pro Ala Lys	ron 5 rr Gln Pro Pro rr Gln Pro Pro
Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Val Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala	Ala Gln Arg His Thr Asp Wet Pro Lys Thr Gln Ala Gln Arg His Thr Asp Wet Pro Lys Thr Gln Ala Gln Arg His Thr Asp Wet Pro Lys Thr Gln Ala Gln Arg His Thr Asp Wet Pro Lys Thr Gln Ala Gln Arg His Thr Asp Wet Pro Lys Thr Gln Ala Gln Arg His Thr Asp Wet Pro Lys Thr Gln Ala Gln Arg His Thr Asp Wet Pro Lys Thr Gln Ala Gln Arg His Thr Asp Wet Pro Lys Thr Gln
Hu MGF - Rat MGF - Rab MGF - Hu IGF - Rat IGF -	Hu MGF Rat MGF Rab MGF Hu IGF Rat IGF Rab IGF

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				r Al	r Al	r Al
				y Se	ž še	у 3е
				g 61	g 61	g G1
	71	Va.	Ŋ1	r Ar	r Ar	r Ar
	3 17	S Ly	s Ly	Se	r Se	Se
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	1 61.	GIL	GE	Asr	Asr	Asr
	GLo	GIC	G11	Lys	Lys	Lys
	Phe	Leu	Phe	Leu	Leu	Leu
	Thr	Thr	Thr	His	Hls	Hls
,	Ser	Ser	Ser	Val	Val	Val
	115	111	17	(Glu	Gla	Gla
	Ser Gla Arg Arg Lys G	Leu Gln Arg Arg Arg Lys G	Ser Gln Arg Arg Arg Lys G		***************************************	LA HIS LA
	Hu MGP -	Rat MGF -	Rab MGF -	Hu IGF -	Rat IGF -	Rab IGF ~

Fig. 12.

